

ENVIRO 300

12m - 12.5m City Bus



Enviro300 is a full size, weight efficient single deck bus, designed to drive down operating costs through an unbeatable combination of higher specification, greater durability and reliability. It offers more seating capacity than any other 12m bus.

Enviro300 is available as a fully integrated Alexander Dennis design, or as a robust yet lightweight chassis for third party body builders. Because of its lightweight design, Enviro300 offers many environmental, energy and economic benefits.



WEIGHT DATA (Net weight including spare wheel)

Model	12.0m	12.5m
Front Axle kerb weight	2770 kg	3000 kg
Rear Axle kerb weight	5780 kg	5800 kg
Total kerb weight	8550 kg	8800 kg
Front Axle plated weight	5000 kg	5000 kg
Rear Axle plated weight	9440 kg	9440 kg
Gross plated weight	14440 kg	14440 kg

DIMENSIONS

Model	12.0m		12.5m	
	Body	Chassis	Body	Chassis
Overall length	11800mm	11427mm	12550mm	12127mm
Wheelbase	6100mm		6800mm	
Overall width	2550mm		2550mm	
Front overhang	2600mm	2240mm	2600mm	2240mm
Rear overhang	3150mm	3087mm	3150mm	3087mm

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CHASSIS SPECIFICATION

Engine

Cummins ISBe-220 Euro 3, 5.9 litre. 6 cylinder
Turbocharged and intercooled diesel engine.
Power: 220 PS (162 kW) @ 2000 to 2500 rpm.
Torque: 820 Nm (605 lbft) @ 1200 to 1600 rpm.
Governed engine speed: 2500 rpm.
Option: Air-conditioning drive facility

Gearbox

ZF5HP502C Ecomat 5 speed.
Options: Allison T280R 4 speed. Voith DIWA D854.3 4 speed.
2F6
All gearboxes feature an integral retarder.

Front Axle

Dana NDS56 I Beam with unitised hub bearings and large kingpins. Design Capacity: 5000 kg. Lock Angle 53° (12m), 55° (12.5m)

Rear Axle

Dana 11-26 single reduction hypoid axle with ground gears.
Design Capacity: 11000 kg.
Standard Ratio: 5.37:1.
Max geared speed 92kph.

Suspension

Full air. Two air bags to front axle. Two air bags to rear axle.
Location by trailing taper leaf springs and panhard rod.
Double action dampers front and rear.
Front axle kneel standard (70 mm).

Frame

All welded frame of mild steel channel and box sections.

Braking System

Full air disc brakes: Wabco Pan 19.1+. Disc Diameter: 375 mm.
Parking Brake: Spring activated, air released on the rear axle.
Compressor: Knorr Bremse twin cylinder
Air dryer: Knorr Bremse. Cat 1 antilock braking system (ABS): Wabco.

Wheels and Tyres

265/70R x 19.5 XZU2+ tubeless radial tyres on spigot mounted wheels of 6.75 inch rim width.

Steering Gear

ZF 8095 integral, variable ratio power steering gear.
Steering Wheel: 460 mm diameter of Alexander Dennis design.
Steering Column: Air released, fully adjustable fore/aft and up/down with the instrument binnacle attached for optimum ergonomics.

Cooling System

Rear mounted cassette type radiator and intercooler with hydraulic fan drive. Thermostatically controlled.
Separate header tank with side fill point.
Quick release radiator core.

Optional integrated condenser for cab air con.
Perforated fly screen on swing-out door.

Fuel Tank

Mild Steel, 250 litre (55 gallons) with quick release filler.

Exhaust System

Mild Steel silencer with rear discharge. Optional stainless steel exhaust, catalytic converter or CRT.

Electrical Equipment

Prestolite 172R - 140 amp alternator.
2 x 12 volt 180 Ahr low maintenance batteries mounted in swing-out carrier under the driver's cab.
Multiplex electrical system with diagnostics.
NATO 24 volt battery boost-socket on carrier with adjacent Kislign isolator switch.

Instrumentation

Column mounted fully adjustable with all functions available on an active display screen to provide full driver information binnacle.

BODY SPECIFICATION

Framing

Steel front and rear frame assembly. Front and rear main Aluminium Extrusion.

Emergency Exits

Rear emergency right hand side. Hinged rear window.

Body Insulation

Fully insulated body.

Body Panels

Single bay 1 piece panels.

Roof

ABS cove panels - integrated speaker system. melamine faced centre-ceiling panels.

Interior Trim

ABS trim system.

Heating

Full-length convector with integral blower main saloon. Rear saloon convector with integral blower.

Lighting

Continuous dimmer controlled lighting with options.

Glazing

Front screen, 1 piece 6.8mm laminated as standard. Body side glazing 6mm single bonded glazed, double-glazing optional. Tint optional. 6 hopper windows standard.

Seating

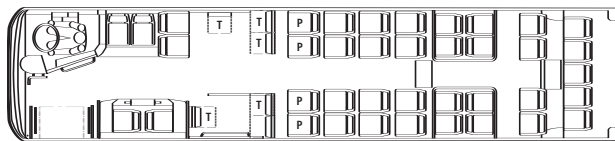
Cantilever saloon seats, cantilever tip-up and box mounted seats. Optional pedestal seating. Various seat belt options available.

Destination Gear

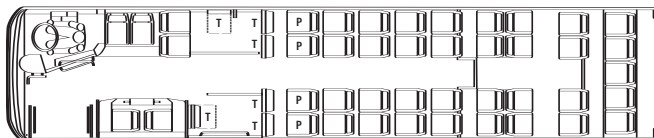
Fully DDA compliant systems available from a range of suppliers.

Capacities

Overall Length - 12m • Seated - 45+1 wheelchair • Access from Low Floor - 29 • Standee - 25 • Total Passengers - 70



Overall Length - 12.5m • Seated - 49+1 wheelchair • Access from Low Floor - 32 • Standee - 27 • Total Passengers - 76



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Alexander Dennis' policy is one of continuous development. The right is reserved to change specifications of the models and items described.
For the latest details always consult Alexander Dennis. 11/04